

# SKINNER 7000 Series

## Manual Reset Three-Way Direct Acting and Pilot Operated Valves

### SPECIFICATIONS

#### Mechanical Characteristics

##### Standard Materials of Construction

- Body—Brass or Stainless Steel (430)
- Seals—NBR or FKM seals as listed
- Sleeve Tube—Stainless Steel (303 or 304)
- Plunger—Stainless Steel (430FR)
- Shading Ring—Copper
- Stop—Stainless Steel (430FR)
- Springs—Stainless Steel (18-8)
- Pilot Orifice—Stainless Steel (303)

##### Compatible Fluids

- Depending on the valve used, most common media including air, inert gases or petroleum products.

#### Electrical Characteristics

##### Voltages

- DC—12, 24
- AC—110/50-120/60, 220/50-240/60

##### Power Consumption

- 10, 22 watts

##### Agency Approvals

- cUL approval.

#### Miscellaneous

##### Maximum Ambient Temperature

- 131°F

### DIRECT ACTING STAINLESS STEEL VALVES—NORMALLY CLOSED, NBR OR FKM SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)				No-Voltage Release Pressure Vessel Number	Electrically Tripped Pressure Vessel Number	Const. Ref.	
			Min.*	Maximum						
				AC Ratings		DC Ratings				
				10 watt	22 watt	10 watt				22 watt
1/4"	3/64 x 3/32	0.062 x 0.17	0	200		200	70315SN2ENVR	70315SN2ENET	25	
	1/16 x 3/32	0.11 x 0.17	0	150		150	70315SN2GVVR	70315SN2GVET	25	
	3/32 x 3/32	0.17 x 0.17	0	90		90	70315SN2KVVR	70315SN2KVET	25	
	1/8 x 3/32	0.23 x 0.17	0	60		60	70315SN2MNVVR	70315SN2MNET	25	

### PILOT OPERATED BRASS VALVES—NORMALLY CLOSED, NBR SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)					No-Voltage Release Pressure Vessel Number	Electrically Tripped Pressure Vessel Number	Const. Ref.
			Min.*	Maximum						
				AC Ratings		DC Ratings				
				10 watt	22 watt	10 watt	22 watt			
3/8"	3/8	2.1	10	180		180		70312BN3RNVN	70312BN3RNET	25
1/2"	1/2	3.6	10	180		180		70312BN4UNVN	70312BN4UNET	25
3/4"	3/4	7.3	10	180		180		70312BN52NVR	70312BN52NET	25

### DIRECT ACTING STAINLESS STEEL VALVES—NORMALLY OPEN, NBR SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)					No-Voltage Release Pressure Vessel Number	Electrically Tripped Pressure Vessel Number	Const. Ref.
			Min.*	Maximum						
				AC Ratings		DC Ratings				
				10 watt	22 watt	10 watt	22 watt			
1/4"	1/16 x 3/32	0.095 x 0.17	0	150		150		70325SN2GNVR	70325SN2GNET	25

### PILOT OPERATED BRASS VALVES—NORMALLY OPEN, NBR SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)					No-Voltage Release Pressure Vessel Number	Electrically Tripped Pressure Vessel Number	Const. Ref.
			Min.*	Maximum						
				AC Ratings		DC Ratings				
				10 watt	22 watt	10 watt	22 watt			
3/8"	5/8	2.1	10	180		180		70322BN3RNVN	70322BN3RNET	25
1/2"	1/2	3.6	10	180		180		70322BN4UNVR	70322BN4UNET	25
3/4"	3/4	7.3	10	180		180		70322BN52NVR	70322BN52NET	25

### DIRECT ACTING BRASS VALVES—UNIVERSAL ALL-PORTS-IN-BODY, FKM SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)				No-Voltage Release Pressure Vessel Number	Electrically Tripped Pressure Vessel Number	Const. Ref.			
			Min.*	Maximum		10 watt				22 watt		
				AC Ratings							DC Ratings	
				10 watt	22 watt						10 watt	22 watt
1/4"	5/64 x 5/64	0.14 x 0.14	0	100			100	7033TBN2JVVR	7033TBN2JVET	25		
1/4"	1/8 x 1/8	0.23 x 0.23	0	50			50	7033TBN2NVVR	7033TBN2NVET	25		

\* Pilot operated valves require the minimum pressure differential specified for proper valve operation.

# 7000 Series

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### DIRECT ACTING 303 STAINLESS STEEL VALVES – UNIVERSAL ALL-PORTS-IN-BODY, FKM SEALS\*\*

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)				No-Voltage Release Pressure Vessel Number	Electrically Tripped Pressure Vessel Number	Const. Ref.	
			Min.*	Maximum		DC Ratings				
				AC Ratings		DC Ratings				
				10 watt	22 watt	10 watt				22 watt
1/4"	1/16 x 1/16	0.095 x 0.095	0	150		150	7033TVN2GVVR	7033TVN2GVET	25	
1/4"	5/64 x 5/64	0.14 x 0.14	0	100		100	7033TVN3JVVR	7033TVN2JVET	25	
1/4"	1/8 x 1/8	0.23 x 0.23	0	50		50	7033TVN2NVVR	7033TVN2NVET	25	

\* All wetted parts are stainless steel, FKM and plastic.

### DIRECT ACTING 316L STAINLESS STEEL VALVES – INTRINSICALLY SAFE, NBR SEALS

Pipe Size NPT	Orifice Size (inch)	Cv Factor	Operating Pressure Differential (PSI)				No-Voltage Release Pressure Vessel Number	Electrically Tripped Pressure Vessel Number	Const. Ref.	
			Min.*	Maximum						
				AC Ratings		DC Ratings				
				10 watt	22 watt	10 watt				22 watt
1/4'	3/16	0.53	0	145		145	U033X51560860N7+		25	

+ Includes coil

DRAWINGS

Dimension	No-Voltage Release	Electrically Tripped
A	4.64	4.40
B	4.31	4.07
C	1.79	1.59
D	3.26	3.06

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